JOURNAL OF SEDIMENTARY PETROLOGY

INDEX

VOLUME 49

MARCH, 1979–DECEMBER, 1979

EDITOR

ORRIN H. PILKEY, JR.

PUBLISHED BY THE
SOCIETY OF ECONOMIC PALEONTOLOGISTS AND MINERALOGISTS

A DIVISION OF
THE AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS
Box 4756, Tulsa, Oklahoma 74104

AUTHOR INDEX TO VOLUME 49

AHLBRANDT, T. S. see FRYBERGER 3 733
ALFOLDI, T. T. see AMOS 1 159
ANDERSON, JOHN B. "RUASA": An Automated Rapid Sediment Analyser 2 625
ANDERSON, JOHN B. see KURTZ 4 1159
ANDREWS, S. see FRYBERGER 3 733
AMOS, C. L. The Determination of Suspended Sediment Concentration in a Macrotidal System Using Landsat Data 1 159
AYLING, ANTHONY M. see GREGORY 4 1125

BAKLER, NATAN see MAGARITZ 2 401
BALDWIN, TIMOTHY see BERNER 4 1345
BALLANCE, PETER F. see GREGORY 4 1125
BALLANTYNE, C. K. Use of the Chi-Square Test for the Analysis of Orientation Data 3 773
BASKIN, DAVID K. A Method of Preparing Phytoclasts for Vitrinite Reflectance Analysis 2 633
BEHRENS, E. W. see LAND 4 1269
BERNER, ROBERT A. Authigenic Iron Sulfides as Paleosalinity Indicators 4 1345
BHATTACHARYYA, AJIT Experimental Compaction of Ooids and Lime Mud and Its Implication for Lithification During Burial 4 1279
BHATTACHARYYA, AJIT On the Diagenesis of Lime Mud: Scanning Electron Microscopic Observations of a Subsurface Material from Barbados, W.I.—Discussion 4 1353
BINDA, PIER L. Origin of Oolitic Iron Formations—Discussion 4 1351
BIRCH, GAVIN F. Phosphatic Rocks on the Western Margin of South Africa 1 93
BJØRLYKKE, KNUT Cementation of Sandstones—Discussion 4 1358
BOLES, JAMES R. Clay Diagenesis in Wilcox Sandstones of Southwest Texas: Implications of Smectite Diagenesis on Sandstone Cementation 1 55
BOLES, JAMES R. Cementation of Sandstones—Reply 4 1362
BRAITHWAITE, C. J. R. Crystal Textures of Recent Fluvial Pisolites and Laminated Crystalline Crusts in Dyfed, South Wales 1 181
BRENNER, ROBERT L. see SPECHT 4 1307
BROWN, P. JEFFREY see EHRLICH 2 669
BUCHBINDER, BINYAMIN Facies and Environments of Miocene Reef Limestones in Israel 4 1323
BURGESS, CHRISTOPHER J. The Development of a Lower Jurassic Carbonate Tidal Flat, Central High Atlas Morocco. 2: Diagenetic History 2 413

CAMERON, BARRY see JONES 1 325
CAMERON, BARRY see JONES 1 332
CARDER, KENDALL L. see GARTNER 2 631
CARSON, BOBB see KELLEY 2 639
CARTER, LIONEL Significance of Unstained and Stained Gravel on the Newfoundland Continental Slope and Rise 4 1147
CAS, RAY Mass-Flow Arenites from a Paleozoic Interarc Basin, New South Wales, Australia: Mode and Environment of Emplacement 1 29
CHAFETZ, HENRY S. Petrology of Carbonate Nodules from a Cambrian Tidal Inlet Accumulation, Central Texas 1 215
CIRCÉ, RONALD C. see DOKKEN 2 658
CLAGUE, JOHN J. see SWAN 2 487
CLEARY, WILLIAM J. Genesis and Significance of Marsh Islands Within Southeastern North Carolina Lagoons 3 703
CLIFTON, H. EDWARD see HUNTER 3 711
CODY, ROBERT D. Lenticular Gypsum: Occurrences in Nature, and Experimental Determinations of Effects of Soluble Green Plant Material on its Formation 3 1015

COHEN, ARTHUR D. see STAUB 1 133
COLLINS, M. B. see HAMMOND 2 643
COMBELLICK, RODNEY A. see PORTER 3 727
COOPER, W. A. see HYNE 4 1209
CORNISH, R. see BALLANTYNE 3 773
COSSEY, STEPHEN P. J. A Conglomeratic, Carbonate Flow Deposit, Northern Tunisia: A Link in the Genesis of Pebbly Mudstones 1 11
CYS, JOHN M. see MAZZULLO 3 917

DAVIES, THOMAS A. see WORSLEY 4 1131
DICKINSON, WILLIAM R. Mesozoic Lithic Sandstones in Central Oregon 2 501
DINGLER, JOHN R. The Threshold of Grain Motion under Oscillatory Flow in a Laboratory Wave Channel 1 287
DOKKEN, QUENTON R. A Portable, Self Supporting, Hydraulic Vibracorer for Coring Submerged, Unconsolidated Sediments 2 658
DOLAN, ROBERT see HAYDEN 4 1061
DONALDSON, J. ALLAN Beachrock in Proterozoic Dolostone of the Belcher Islands, Northwest Territories, Canada 4 1287
DRAKE, D. E. Sediment Transport During the Winter on the Yukon Prodelta, Norton Sound, Alaska 4 1171
DRAVIS, JEFF Rapid and Widespread Generation of Recent Oolitic Hardgrounds on a High Energy Bahamian Platform, Eleuthera Bank, Bahamas 1 195
DUTTON, SHIRLEY P. see LAND 4 1359

EDWARDS, MARC B. Late Precambrian Loessites from North Norway and Svalbard 1 85
EDWARDS, M. J. Lithologic Patterns in the Energy Shale and the Origin of "Rolls" in the Herrin (No. 6) Coal, Pennsylvanian, in the Orient No. 6 Mine, Jefferson County, Illinois 3 1005
EHRLICH, ROBERT see COSSEY 1 11
EHRLICH, ROBERT Sources of Shoaling in Charleston Harbor, Fourier Grain Shape Analysis—Reply 2 669
EHRLICH, ROBERT see PORTER 3 727
ELLIS, R. A. see SCHINK 2 651
ERIKSSON, K. A. see HARRELL 1 273

FAGIN, S. W. see LINDHOLM 4 1245
FAURE, G. see STANLEY 1 45
FOLK, ROBERT L. see McBRIDE 3 837
FRANKS, STEPHEN G. see BOLES 1 55
FRANKS, S. G. see BOLES 4 1362
FREEMAN, TOM Field Statistical Assessment of Cross-Bed Data 2 624
FRIEDMAN, GERALD M. see BHATTACHARYYA 4 1279
FRISHMAN, S. A. see LAND 4 1269
FRYBERGER, S. G. Origin, Sedimentary Features, and Significance of Low-Angle Eolian "Sand Sheet" Deposits, Great Sand Dunes National Monument and Vicinity, Colorado 3 733

GARTNER, JEFFREY W. A Method to Determine Specific Gravity of Suspended Particles Using an Electronic Particle Counter 2 631
GAUTIER, DONALD L. Preliminary Report of Authigenic, Euhedral Tourmaline Crystals in a Productive Gas Reservoir of the Tiger Ridge Field, North-Central Montana 3 911
GAVISH, ELIEZER see MAGARITZ 2 401
GIBSON, GRAHAM W. see GREGORY 4 1125
GOLDBERY, RON A Textural Inversion Phenomenon within Lower Jurassic Red Beds of the Ardon Formation, Makhtesh Ramon, (Israel) 3 891
GOSTIN, VICTOR A. see HAILS 2 646
GREGORY, MURRAY R. On How Some Rays (Elasmobranchia) Excavate Feeding Depressions by Jetting Water 4 1125

GROSSMAN, ROY H. Chlorite and its Relationship to Pyritization in Anoxic Marine Environments 2 611

HAILS, JOHN R. A Cutter for Plastic Liner Tubes 2 646
HALLEY, ROBERT B. Fresh-Water Cementation of a 1,000-Year-Old Oolite 3 969
HAMMOND, T. M. Notes on the Design of an Oscillating Trolley Wave-Simulator for Installation in Unidirectional Flow Flumes 2 643
HAMPTON, MONTY A. Buoyancy in Debris Flows 3 753
HANOR, JEFFREY S. see WALTER 3 937
HARRELL, J. A. Empirical Conversion Equations for Thin-Section and Sieve Derived Size Distribution Parameters 1 273
HARRIS, FRANK W. Benthic Community Development in Limestone Beds of the Waynesville (Upper Dillsboro) Formation (Cincinnatian Series, Upper Ordovician) of Southeastern Indiana 4 1295
HARRIS, IAN M. see PICKERILL 3 1029
HARRIS, PAUL M. see HALLEY 3 969
HAYDEN, BRUCE P. Barrier Islands, Lagoons, and Marshes 4 1061
HAZLETT, J. M. see LINDHOLM 4 1245
HEALD, M. T. Alteration of Sandstone as Revealed by Spheroidal Weathering . . . 3 901
HELMOLD, KENNETH R. see DICKINSON 2 501
HIGGS, ROGER Quartz-Grain Surface Features of Mesozoic-Cenozoic Sands from the Labrador and Western Greenland Continental Margins 2 599
HINE, ALBERT C. Landward Migration of Barrier Island Sands under Stable Sea Level Conditions: Plum Island, Massachusetts—Discussion 1 323
HINE, ALBERT C. see LANESKY 2 654
HISCOTT, RICHARD N. Clastic Sills and Dikes Associated with Deep-Water Sandstones, Tourelle Formation, Ordovician, Quebec 1 1
HOBBS, CARL H., III Landward Migration of Barrier Island Sands under Stable Sea Level Conditions: Plum Island, Massachusetts—Discussion 1 330
HOBDAY, D. K. Transgressive Shore Zone Sedimentation and Syndepositional Deformation in the Pleistocene of Zululand, South Africa 1 145
HOLDREN, GEORGE R., JR. see BERNER 4 1345
HOLLINGSWORTH, T. J. see HEALD 3 901
HOLMES, CHARLES W. see DOKKEN 2 658
HOSIER, PAUL E. see CLEARY 3 703
HOUNSLOW, ARTHUR W. Modified Gypsum/Anhydrite Stain 2 636
HOWELL, DAVID G. Eocene Conglomerate Sedimentology and Basin Analysis, San Diego and the Southern California Borderland 2 517
HUBBARD, DENNIS K. The Role of Waves and Tidal Currents in the Development of Tidal-Inlet Sedimentary Structures and Sand Body Geometry: Examples from North Carolina, South Carolina, and Georgia 4 1073
HUFF, W. D. see MARTIN 2 641
HUFFMAN, A. CURTIS see WRIGHT 1 315
HUNTER, RALPH E. Depositional Processes, Sedimentary Structures, and Predicted Vertical Sequences in Barred Nearshore Systems, Southern Oregon Coast 3 711
HYNE, N. J. Prodelta Sedimentation on a Lacustrine Delta by Clay Mineral Flocculation 4 1209

INGERSOLL, RAYMOND V. Petrology and Provenance of Neogene Sand from Nicobar and Bengal Fans, DSDP Sites 211 and 218 . . . . . 4 1217

JACKSON, M. P. A. see HOBDAY 1 145
JONES, DAPHNE L. Oxygen Isotopic and Petrographic Evidence Relevant to the Origin of the Arkansas Novaculite 2 581
JONES, J. RICHARD Landward Migration of Barrier Island Sands under Stable Sea Level Conditions, Plum Island, Massachusetts—Reply 1 325
JONES, J. RICHARD Landward Migration of Barrier Island Sands under Stable Sea Level Conditions: Plum Island, Massachusetts—Reply 1 332
JØRGENSEN, NIELS OLUF Magnesium Incorporation in Recent Marine Calcite Cement from Denmark 3 945

KAFRI, URI see MAGARITZ 2 401
KELLEY, JOSEPH T. A Large Volume Suspended Sediment Sampler 2 639
KIMBERLEY, MICHAEL M. Origin of Oolitic Iron Formations 1 111
KIMBERLEY, MICHAEL M. Origin of Oolitic Iron Formations—Reply 4 1352
KLAPPA, COLIN F. Lichen Stromatolites: Criterion for Subaerial Exposure and a Mechanism for the Formation of Laminar Calcretes (Caliche) 2 387
KLAPPA, COLIN F. Calcified Filaments in Quaternary Calcretes: Organo-Mineral Interactions in the Subaerial Vadose Environment 3 955
KNAUTH, L. PAUL see JONES 2 581
KNAUTH, L. PAUL see LOWE 2 664
KOCURKO, M. JOHN Dolomitization by Spray-Zone Brine Seepage, San Andres, Colombia 1 209
KURTZ, DENNIS D. see ANDERSON 2 625
KURTZ, DENNIS D. Recognition and Sedimentologic Description of Recent Debris Flow Deposits from the Ross and Weddell Seas, Antarctica 4 1159

LAIDIG, L. W. see HYNE 4 1209
LAND, LYNTON S. Chert-Chalk Diagenesis: The Miocene Island Slope of North Jamaica 1 223
LAND, L. S. The Ooids of Baffin Bay, Texas 4 1269
LAND, LYNTON S. Cementation of Sandstones—Reply 4 1359
LANESKY, DOUGLAS E. A New Approach to Portable Vibracoring Underwater and on Land 2 654
LANGENHEIM, R. L., JR. see EDWARDS 3 1005
LeBLOND, PAUL H. An Explanation of the Logarithmic Spiral Plan Shape of Headland-Bay Beaches 4 1093
LEDVINA, C. T. see EDWARDS 3 1005
LIEBLING, RICHARD S. see GROSSMAN 2 611
LIENERT, BARRY R. see TAIRA 3 759
LINDHOLM, R. C. Utilization of Programmable Calculators in Sedimentology . . . 2 615
LINDHOLM, R. C. Petrology of Triassic-Jurassic Conglomerates in the Culpeper Basin, Virginia 4 1245
LINDSTROM, MAURITS Calcitized Tephra, Sedimentary Sills and Micro-Vents, in Lower Ordovician Pelagic-Type Limestone, Sweden 1 233
LINK, MARTIN H. see HOWELL 2 517
LITZ, P. E. see MARTIN 2 641
LOGAN, BRIAN W. see LANESKY 2 654
LOHMANN, KYGER C. see MEYERS 2 674
LOWE, DONALD R. The Oldest Marine Carbonate Ooids Reinterpreted as Volcanic Accretionary Lapilli, Onverwacht Group, South Africa—Reply 2 664
LUMSDEN, DAVID N. Discrepancy Between Thin-Section and X-Ray Estimates of Dolomite in Limestone 2 429
LUTERNAUER, J. L. see SWAN 2 487

MacILVAINE, JOSEPH C. Sedimentary Processes on the Continental Slope of New England 2 563
MAGARITZ, MORDECKAI Carbon and Oxygen Isotope Composition—Indicators of Cementation Environment in Recent, Holocene, and Pleistocene Sediments along the Coast of Israel 2 401
MARTIN, R. A New Technique for Making Thin Sections of Clayey Sediments . . . 2 641
MARTIN, WAYNE D. see HARRIS 4 1295
MAY, JEFFREY A. Endolithic Infestation of Carbonate Substrates Below the Sediment-Water Interface 2 357
MAYER, LARRY A. Deep Sea Carbonates: Acoustic, Physical, and Stratigraphic Properties 3 819
MAZZULLO, S. J. Marine Aragonite Sea-Floor Growths and Cements in Permian Phylloid Algal Mounds, Sacramento Mountains, New Mexico 3 917
McBRIDE, EARLE F. Features and Origin of Italian Jurassic Radiolarites Deposited on Continental Crust 3 837

McCALL, PETER L. The Effects of Deposit Feeding Oligochaetes on Particle Size and Settling Velocity of Lake Erie Sediments 3 813
McCAVE, I. N. Suspended Material Over the Central Oregon Continental Shelf in May 1974: I, Concentrations of Organic and Inorganic Components 4 1181
McLEAN, HUGH Sandstone Petrology: Upper Jurassic Naknek Formation of the Alaska Peninsula and Coeval Rocks on the Bering Shelf 4 1263
McMULLIN, B. R. Xeroradiography: An Improved X-Ray Method as Applied in the Study of Unopened Small-Diameter Sediment Cores 2 648
MEYERS, WILLIAM J. Microdolomite-Rich Syntaxial Cements: Proposed Meteoric-Marine Mixing Zone Phreatic Cements from Mississippian Limestones, New Mexico—Reply 2 674
MILLIKEN, Kitty Lou The Silicified Evaporite Syndrome—Two Aspects of Silicification History of Former Evaporite Nodules from Southern Kentucky and Northern Tennessee 1 245
MILLS, HUGH H. Downstream Rounding of Pebbles. A Quantitative Review 1 295
MOLTZER, JOOP G. see BINDA 4 1351
MOORE, GREGORY F. Petrography of Subduction Zone Sandstones from Nias Island, Indonesia 1 71
MOORE, P. S. Deltaic Sedimentation—Cambrian of South Australia 4 1229
MORGAN, WARREN P., JR. see PINET 2 575
MORTON, ANDREW C. Depth Control of Intrastratal Solution of Heavy Minerals from the Palaeocene of the North Sea 1 281
MORTON, D. J. see THOMPSON 3 801
MORTON, ROBERT A. Temporal and Spatial Variations in Shoreline Changes and Their Implications, Examples from the Texas Gulf Coast 4 1101
MULLINS, HENRY T. Modern Modified Carbonate Grain Flow Deposit 3 747

NEIHEISEL, JAMES Sources of Shoaling in Charleston Harbor, Fourier Grain Shape Analysis—Discussion 2 666
NELSON, W. J. see Edwards 3 1005
NUHFER, EDWARD B. Association of Kaolinite with Pyritic Framboids—Discussion 1 321
NUMMEDAL, DAG see HUBBARD 4 1073

OERTEL, GEORGE see HUBBARD 4 1073
OGLESBY, TOM W. Microdolomite-Rich Syntaxial Cements: Proposed Meteoric-Marine Mixing Zone Phreatic Cements from Mississippian Limestones, New Mexico—Discussion 2 670
OSBORNE, ROBERT H. see PORTER 3 727

PAVLOVIC, ARTHUR S. see NUHFER 1 321
PERKINS, RONALD D. see MAY 2 357
PHILLIPS, R. LAWRENCE see HUNTER 3 711
PICARD, M. DANE Editorial—Book Reviews 2 353
PICKERILL, RONALD K. A Reinterpretation of *Astropolithon Hindii* Dawson 1878 3 1029
PIERCE, KEITH see FREEMAN 2 624
PINET, PAUL R. Implications of Clay-Provenance Studies in Two Georgia Estuaries 2 575
PORTER, GERALD A. Sources and Nonsources of Beach Sand Along Southern Monterey Bay California—Fourier Shape Analysis 3 727
PRATT, BRIAN Early Cementation and Lithification in Intertidal Cryptalgal Structures, Boca Jewfish, Bonaire, Netherlands Antilles 2 379

REIF, DOUGLAS M. Red Bed Members of the Lower Triassic Moenkopi Formation, Southern Nevada: Sedimentology and Paleogeography of a Muddy Tidal Flat Deposit 3 869
RICKETTS, BRIAN D. see DONALDSON 4 1287
ROBBIN, DANIEL M. Depositional Rate of Laminated Soilstone Crusts, Florida Keys 1 175
RODOLFO, KELVIN S. Editorial—Figures for JSP 4 1053
ROSEN, PETER S. Boulder Barricades in Central Labrador 4 1113
ROSENFELD, JEFFREY K. Interstitial Water and Sediment Chemistry of Two Cores from Florida Bay 3 989

ROSS, DAVID A. See MacILVAINE 2 563

SAGRI, MARIO Upper Cretaceous Carbonate Turbidites of the Alps and Apennines Deposited Below the Calcite Compensation Level 1 23
SALLENGER, ASBURY H. Inverse Grading and Hydraulic Equivalence in Grain-Flow Deposits 2 553
SCHERP, HORST S. see GROSSMAN 2 611
SCHINK, J. C. An Improved Device for Gasometric Determination of Carbonate in Sediment 2 651
SCHOLLE, PETER A. see TAIRA 3 777
SCHOLLE, PETER A. see TAIRA 3 787
SEDEORA, SURJIT S. see WILSON 2 637
SELF, STEPHEN The Oldest Marine Carbonate Ooids Reinterpreted as Volcanic Accretionary Lapilli, Onverwacht Group, South Africa—Discussion 2 661
SHIDELER, GERALD L. Regional Surface Turbidity and Hydrographic Variability on the South Texas Continental Shelf 4 1195
SLATT, ROGER M. see REIF 3 869
SMITH, GERALD R. see SWIRYDCZUK 3 995
SMITH, R. M. see HEALD 3 901
SMOSNA, RICHARD A Scheme for Multivariate Analysis in Carbonate Petrology with an Example from the Silurian Tonoloway Limestone 1 257
SNEH, AMIHAI Late Pleistocene Fan-Deltas Along the Dead Sea Rift 2 541
SPARKS, R. S. J. see SELF 2 661
SPECHT, RALPH W. Storm-Wave Genesis of Bioclastic Carbonates in Upper Jurassic Epicontinental Mudstones, East-Central Wyoming 4 1307
STALDER, PIERRE J. Organic and Inorganic Metamorphism in the Taveyannaz Sandstone of the Swiss Alps and Equivalent Sandstones in France and Italy . . . 2 463
STANLEY, K. O. Isotopic Composition and Sources of Strontium in Sandstone Cements: The High Plains Sequence of Wyoming and Nebraska 1 45
STAUB, JAMES R. The Snuggedy Swamp of South Carolina: A Back-Barrier Coal-Forming Environment 1 133
STEIN, JEFFREY A. see DICKINSON 2 501
STEINEN, RANDOLPH P. On the Diagenesis of Lime Mud: Scanning Electron Microscopic Observations of Subsurface Material from Barbados, W.I.—Reply 4 1355
STIPP, J. J. see ROBBIN 1 175
STOCKWELL, J. H. see SCHINK 2 651
STOW, DORRIK A. V. Method for Silt and Sand Fabric Analysis in Deep-Sea Cores 2 627
SUCZEK, CHRISTOPHER A. see INGERSOLL 4 1217
SWAN, DAVIS Grain-Size Statistics II: Evaluation of Grouped Moment Measures 2 487
SWART, PETER K. The Effect of Seawater Calcium Concentrations on the Growth and Skeletal Composition of a Scleractinian Coral: *Acropora Squamosa* 3 951
SWIRYDCZUK, KRYSTYNA The Pliocene Glenns Ferry Oolite: Lake-Margin Carbonate Deposition in the Southwestern Snake River Plain 3 995

TAIRA, ASAHIKO The Comparative Reliability of Magnetic, Photometric and Microscopic Methods of Determining the Orientations of Sedimentary Grains 3 759
TAIRA, ASAHIKO Origin of Bimodal Sands in Some Modern Environments 3 777
TAIRA, ASAHIKO Discrimination of Depositional Environments Using Settling Tube Data 3 787
THOMPSON, R. Magnetic Susceptibility and Particle-Size Distribution in Recent Sediments of the Loch Lomond Drainage Basin, Scotland 3 801
TOTMAN, C. E. see DRAKE 4 1171

VAN BUREN, H. MARK see MULLINS 3 747
van de POLL, H. W. see McMULLIN 2 648
VAVRA, CHARLES L. Programmable Pocket Calculator as an Inexpensive Point Count System 2 621
VINOPAL, ROBERT X-Ray Radiography of Coal 2 483

WALTER, LYNN M. Orthophosphate: Effect on the Relative Stability of Aragonite and Magnesian Calcite During Early Diagenesis 3 937
WALTON, ANTHONY W. Volcanic Sediment Apron in the Tascotal Formation (Oligocene?), Trans-Pecos, Texas 1 303
WANLESS, HAROLD ROGERS Limestone Response to Stress: Pressure Solution and Dolomitization 2 437
WARSHAUER, STEVEN M. see SMOSNA 1 257
WELLS, GLENN R. see CLEARY 3 703
WIBERG, P. L. see DRAKE 4 1171
WILKINSON, BRUCE H. see SWIRYDCZUK 3 995
WILSON, MICHAEL D. An Improved Thin Section Stain for Potash Feldspar . . . 2 637
WORSLEY, THOMAS R. Cenozoic Sedimentation in the Pacific Ocean: Steps Toward a Quantitative Evaluation 4 1131
WRIGHT, THOMAS O. Correlation of Indurated Beds in the Paleocene Brightseat and Aquia Formations, Prince Georges County, Maryland 1 315
WRIGHT, WALTER W. see HAILS 2 646

ZENGER, DONALD H. Primary Textures in Dolostones and Recrystallized Limestones: A Technique for their Microscopic Study—Discussion 2 677

SUBJECT INDEX TO VOLUME 49

Alaska, Jurassic sandstone 4 1263
Alaska, sediment transport 4 1171
Algal mounds, cements 3 917
Alps, Cretaceous turbidites 1 23
Antarctica, debris flows 4 1159
Apron, volcanic 1 303
Aragonite, growths and cements 3 917
Aragonite, stability 3 937
Arenites, mass flow 1 29
Arkansas novaculite, origin 2 581
Astropolithon Hindii, reinterpretation . . . 3 1029
Australia, Cambrian delta 4 1229
Australia, Paleozoic arenites 1 29
Authigenic iron sulfides 4 1345

Bahama, oolitic hardgrounds 1 195
Barrier islands 4 1061
Barrier migration, discussion, reply 1 323
Basin analysis, conglomerates 2 517
Beaches, headland bay 4 1093
Beachrock, Proterozoic 4 1287
Beach sand, sources 3 727
Bengal Fan 4 1217
Benthic communities, Waynesville Formation 4 1295
Bimodal sands, origin 3 777
Bioclastic carbonates, stormwave genesis 4 1307
Bioturbation, oligochaetes 3 813
Bonaire, early cementation 2 379
Book Reviews, editorial 2 353
Boulder barricades, Labrador 4 1113
Brine seepage, dolomitization 1 209
Buoyancy, debris flows 3 753

Calcite compensation level 1 23
Calcitized Tephra 1 233
Calcretes, formation 2 387
Calcretes, petrography 3 955
Calculator, point count use 2 621
Calculator, use in sedimentology 2 615
Caliche, formation 2 387
California, beach sand 3 727
Carbon isotopes, cementation 2 401
Carbonate, gasometric determination . . . 2 651
Carbonate nodules, petrology 1 215
Carbonates, deep sea 3 819
Cement, Recent marine 3 945
Cement, sandstone 1 45
Cementation, early, intertidal 2 379
Cementation, Israel coast 2 401
Cementation, oolite, fresh-water 3 969
Cementation, sandstone 1 55
Cenozoic sedimentation, Pacific 4 1131
Chert-chalk, diagenesis 1 223
Chlorite, relation to pyrite 2 611
Clastic sills and dikes 1 1
Clay diagenesis 1 55
Clay provenance, estuaries 2 575
Coal, back barrier environment 1 133
Coal, shale, Illinois 3 1005
Coal, X-radiography 2 483
Colombia, dolomitization 1 209
Colorado, dune sands 3 733
Compaction, ooids, lime mud 4 1279
Conglomerate sedimentology 2 517
Continental Slope, processes 2 563

Conversion, thin section to sieve 1 273
Coral, Scleractinian, growth 3 951
Core liner, cutter 2 646
Correlation, petrographic 1 315
Cross bed, field assessment 2 624
Crusts, laminated, Recent 1 181

Debris flows, Antarctica 4 1159
Debris flows, buoyancy 3 753
Deformation, syndepositional 1 145
Delta, lacustrine 4 1209
Deltaic sedimentation, Australia 4 1229
Deltas, fan, Dead Sea 2 541
Denmark, marine cement 3 945
Depositional environments, discrimination 3 787
Depressions, feeding 4 1125
Diagenesis, carbonate 2 413
Diagenesis, chert chalk 1 223
Diagenesis, clay 1 55
Diagenesis, orthophosphate 3 937
Dikes and sills, clastic 1 1
Dolomite, X-ray and thin section 2 429
Dolomitization 2 437
Dolomitization, spray zone 1 209
Dolostone, Proterozoic 4 1287
Dune bedding, origin 3 733

Editorial, Book Reviews, JSP 2 353
Editorial, figures, JSP 4 1053
Endolithic infestation, carbonates 2 357
Eolian, sand sheets 3 733
Estuary, clay provenance 2 575
Evaporite, nodules, silicified 1 245

Fabric analysis, deep sea cores 2 627
Feldspar stain, thin section 2 637
Figures, JSP, editorial 4 1053
Florida Bay sediment chemistry 3 989
Florida Keys, laminated crusts 1 175
Flow deposit, carbonate 1 11

Georgia, estuarine clays 2 575
Glacial sediments, loessites 1 85
Grain flow deposits 2 553
Grain flow, modern, carbonate 3 747
Grain motion, threshold 1 287
Grain orientation techniques 3 759
Grain size, moment measures 2 487
Gravel, Newfoundland rise 4 1147
Gypsum/anhydrite stain 2 636
Gypsum formation 3 1015
Gypsum, lenticular 3 1015

Hardgrounds, oolitic, Bahama 1 195
Heavy minerals, Paleocene, North Sea . . 1 281
Hydraulic equivalence 2 553
Hydrography, Texas shelf 4 1195

Idaho, Glenns Ferry oolite 3 995
Illinois, coal shale 3 1005
Indiana, Waynesville limestone 4 1295
Indonesia, sandstone petrography 1 71
Interstitial water chemistry 3 989
Intrastratal solution, depth control 1 281
Intrastratal solution, heavy minerals 1 281
Inverse grading 2 553
Isotopes, strontium 1 45
Israel, cementation, coastal 2 401
Israel, fan deltas 2 541
Israel, Miocene reefs 4 1323
Israel, red beds 3 891
Italy, radiolarites 3 837

Jamaica, chert diagenesis 1 223

Labrador, boulder barricades 4 1113
Lagoons 4 1061
Lake Erie, oligochaetes 3 813
Laminated crusts, depositional rate 1 175
Landsat, suspended sediment use 1 159
Lichen stromatolites 2 387
Lime mud, compaction 4 1279
Lime mud diagenesis, discussion 4 1353
Lime mud diagenesis, reply 4 1355
Limestone, pelagic 1 233
Lithification, early, intertidal 2 379
Loch Lomond, sediments 3 801
Loessites, Pre-Cambrian, Norway 1 85

Macrotidal system, Landsat data 1 159
Magnesian, calcite cement 3 945
Magnesian calcite, stability 3 937
Magnetic susceptibility 3 801
Marshes 4 1061
Marsh Islands, genesis 3 703
Maryland, Paleocene 1 315
Maryland, Tonoloway Limestone 1 257
Mass-flow arenites 1 29
Mediterranean, calcretes 3 955
Metamorphism, organic and inorganic . . . 2 463
Metamorphism, sandstone 2 463
Micro-vents 1 233
Montana, Tiger Ridge Field, tourmaline . . 3 911
Morocco, carbonate diagenesis 2 413
Multivariate analysis, carbonate petrology 1 257

Nearshore sediments, processes 3 711
Nevada, Moenkopi, formation 3 869
Newfoundland, rise gravels 4 1147
New Mexico, algal growths 3 917
New York, Hamilton Group, pyrite 2 611
Nicobar Fan 4 1217
North Carolina, marsh islands 3 703
North Sea, heavy minerals 1 281
Northwest Territories, beachrock 4 1287
Norway, loessites 1 85
Novaculite, origin 2 581

Oligochaetes, Lake Erie 3 813
Ooid interpretation, discussion 2 661
Ooid interpretation, discussion 2 664
Ooids, Baffin Bay, Texas 4 1269
Ooids, compaction 4 1279
Oolite, fresh-water cementation 3 969
Oolite, Glenns Ferry 3 995
Oolite, lake margin 3 995
Oolitic hardgrounds, generation 1 195
Oolitic iron, discussion 4 1351
Oolitic iron, origin 1 111
Oolitic iron, reply 4 1352
Oregon, lithic sandstones 2 501
Oregon, nearshore sediments 3 711
Oregon shelf 4 1181
Organic and inorganic metamorphism . . . 2 463
Orientation data, Chi-Square test 3 773
Oscillatory flow, grain motion 1 287
Oxygen isotopes cementation 2 401
Oxygen isotopes, novaculite 2 581

Paleosalinity 4 1345
Pebbles, rounding 1 295
Pebbly mudstones, genesis 1 11
Petrography, calcrete 3 955
Petrography, novaculite 2 581
Petrography, sandstone, subduction zone 1 71
Petrology, carbonate 1 257
Petrology, carbonate nodules 1 215
Petrology, Neogene sand 4 1217
Petrology, sandstone, Alaska 4 1263
Petrology, Triassic conglomerates 4 1245
Phosphate, South Africa 1 93
Pisolites, fluvial, Recent 1 181
Plant material and gypsum formation . . . 3 1015
Pressure solution 2 437
Pyritic framboids, discussion 1 321
Pyritization, anoxic, marine 2 611

Quebec, Tourelle Formation 1 1

Radiolarites 3 837
Rapid sediment analyzer 2 625
Ray depression 4 1125
Red beds, sedimentology 3 869
Reefs, facies 4 1323
Rolls, origin 3 1005
Rounding, pebbles 1 295

Sampler, suspended sediment 2 639
Sandstone, cement 1 45
Sandstone, cementation 1 55
Sandstone cementation, discussion, reply 4 1358
Sandstone, petrography, subduction zone 1 71
Sandstone, weathering 3 901
Sandstones, lithic, Oregon 2 501
Scleractinian coral growth 3 951
Sediment transport, Yukon prodelta 4 1171
Sedimentary structures, tidal inlet 4 1073
Settling tube, application 3 787
Shape, beaches, logarithmic spiral 4 1093
Shape, fourier analysis 3 727
Shape, fourier, discussion 2 666
Shape, fourier, discussion 2 669
Shore zone, sedimentation 1 145
Shoreline changes, Texas 4 1101
Silicification, evaporites 1 245
Sills and dikes, clastic 1 1
Sills, sedimentary 1 233
Size analysis 1 273
Slope, island, Jamaica 1 223
Slope, New England 2 563
Smectite, diagenesis 1 55
South Africa, phosphate rocks 1 93
South Africa, Pleistocene shore zone . . . 1 145
South Carolina, Snuggedy Swamp 1 133
South Wales, fluvial pisolites 1 181
Southern California, conglomerates 2 517
Specific gravity determination 2 631
Spheroidal weathering 3 901
Statistics, grain size 2 487
Stress, limestone response 2 437
Stromatolites, lichen 2 387
Strontium isotopes 1 45
Subaerial exposure, criteria 3 387
Substrate, carbonate, destruction 2 357
Surface texture, quartz 2 599
Suspended particles, specific gravity . . . 2 631
Suspended sediment 1 159
Suspended sediment, Oregon shelf 4 1181
Suspended sediment sampler 2 639
Sweden, Ordovician limestone 1 233
Syndepositional deformation 1 145
Syntaxial cements, discussion 2 670

Tephra, calcitized 1 233
Texas, Baffin Bay, ooids 4 1269
Texas, Cambrian nodules 1 215
Texas, clay diagenesis 1 55
Texas, shelf, hydrography 4 1195
Texas, shoreline changes 4 1101
Texas, Tascotal Formation 1 303
Textural inversion, red beds 3 891
Textures, microscopic study, discussion . 2 677
Textures, quartz-grain surfaces 2 599
Thin section and sieve, comparison 1 273
Thin section, size analysis 1 273
Thin sections, clayey sediments 2 641
Tidal flat, carbonate, Jurassic 2 413
Tidal flat, Triassic 3 869
Tidal inlet, sedimentary structures 4 1073
Tourmaline, authigenic 3 911
Tunisia, pebbly mudstones 1 11
Turbidites, carbonate 1 23

Venezuela, lacustrine delta 4 1209
Vibracore, portable 2 654
Vibracore, portable 2 658